

## Cman and large sequence

Time Limit : 1 sec

Cman has sequence  $a$  consisting of  $n$  integers. Cman can make several steps. In a single step he can choose an element of the sequence (let's denote it  $a_k$ ) and delete it, at that all elements equal to  $a_k + 1$  and  $a_k - 1$  also must be deleted from the sequence. That step brings  $a_k$  points. You have to help Cman to get maximize the total points.

### Input:

First line contain an integer  $N$  representing number of elements. Second line of testcase contain  $N$  space separated integer denoting the sequence  $a$ .

### Output:

Output the maximum total points.

### Constraints:

$1 \leq N \leq 10^5$

$1 \leq a[i] \leq 10^5$

### Sample Input:

Sample Test case 1:

2  
1 2

Sample Test case 2:

3  
1 2 3

Sample Test case 3:

9  
1 2 1 3 2 2 2 2 3

Sample Output 1:

2

Sample Output 2:

4

Sample Output 3:

10